

The maximum wind velocity for West Indian stations was 38 miles per hour from the northeast at Havana on the 7th; generally, however, light winds prevailed. The rainfall was deficient at both Havana, Cuba, and San Juan, Puerto Rico, the only stations having normal values. It was also light at other places, particularly at Cienfuegos, Cuba.

HUMIDITY.

Average relative humidity and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	75	0	Missouri Valley	75	0
Middle Atlantic	73	—1	Northern Slope	73	—1
South Atlantic	73	—1	Middle Slope	73	—1
Florida Peninsula	73	—1	Southern Slope	73	—1
East Gulf	73	—1	Southern Plateau	41	—1
West Gulf	73	—1	Middle Plateau	70	—1
Ohio Valley and Tennessee	73	—1	Northern Plateau	81	—1
Lower Lake	81	—1	North Pacific Coast	86	—1
Upper Lake	81	—1	Middle Pacific Coast	84	—1
North Dakota	81	—1	South Pacific Coast	71	—1
Upper Mississippi	71	—1			

SUNSHINE AND CLOUDINESS.

The distribution of sunshine is graphically shown on Chart VII, and the numerical values of average daylight cloudiness, both for individual stations and by geographical districts, appear in Table I.

Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	5.5	—0.3	Missouri Valley	5.6	+0.5
Middle Atlantic	4.9	—0.5	Northern Slope	5.3	+1.2
South Atlantic	4.5	—0.3	Middle Slope	5.2	+0.9
Florida Peninsula	5.3	+0.7	Southern Slope	5.2	+0.8
East Gulf	5.7	+0.5	Southern Plateau	5.4	+0.4
West Gulf	5.2	—0.1	Middle Plateau	5.5	+0.4
Ohio Valley and Tennessee	5.8	—0.3	Northern Plateau	7.1	0.0
Lower Lake	7.6	0.0	North Pacific Coast	7.9	+0.6
Upper Lake	6.7	—0.4	Middle Pacific Coast	5.6	+0.2
North Dakota	4.8	—0.4	South Pacific Coast	4.6	+0.2
Upper Mississippi	5.2	—0.5			

WIND.

The maximum wind velocity at each Weather Bureau station for a period of five minutes is given in Table I, which also gives the altitude of Weather Bureau anemometers above ground.

Following are the velocities of 50 miles and over per hour registered during the month:

Maximum wind velocities.

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Block Island, R. I.	24	51	e.	Mount Tamalpais, Cal.	6	78	n.
Buffalo, N. Y.	10	55	sw.	Do.	15	58	sw.
Do.	10	55	sw.	Do.	29	50	n.
Do.	10	55	sw.	Do.	21	58	nw.
Do.	10	55	sw.	Do.	23	70	n.
Do.	10	55	sw.	Do.	24	61	ne.
Carson City, Nev.	11	55	sw.	Do.	30	64	sw.
Chicago, Ill.	11	55	sw.	New York, N. Y.	4	50	n.
Do.	11	55	sw.	Do.	6	54	nw.
Do.	11	55	sw.	Do.	13	55	s.
Cleveland, Ohio	12	55	s.	Do.	18	50	ne.
Do.	24	55	w.	Do.	24	68	e.
Detroit, Mich.	12	55	sw.	Do.	30	50	nw.
Fort Canby, Wash.	12	76	se.	Northfield, Vt.	12	50	s.
Grand Haven, Mich.	12	52	sw.	Winnemucca, Nev.	15	50	se.
Mount Tamalpais, Cal.	5	68	nw.				

ATMOSPHERIC ELECTRICITY.

Numerical statistics relative to auroras and thunderstorms are given in Table VII, which shows the number of stations from which meteorological reports were received, and the number of such stations reporting thunderstorms (T) and auroras (A) in each State and on each day of the month, respectively.

Thunderstorms.—Reports of 167 thunderstorms were received during the current month as against 148 in 1898 and 661 during the preceding month.

The dates on which the number of reports of thunderstorms for the whole country were most numerous were: 10th, 41; 11th, 30; 18th, 27.

Reports were most numerous from: Louisiana, 35; Arkansas, 29; Mississippi, 17.

Auroras.—The evenings on which bright moonlight must have interfered with observations of faint auroras are assumed to be the four preceding and following the date of full moon, viz, 12th to 20th.

Reports were most numerous from Montana and North Dakota, 5; Minnesota, 3.

In Canada.—Auroras were reported as follows: Minnecosa, 8th, 9th, 28th, 29th, 30th. Battleford, 28th, 29th, 31st.

DESCRIPTION OF TABLES AND CHARTS.

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For description of tables and charts see page 424 of REVIEW for September, 1899.